US-PAT-NO: 4857409

DOCUMENT-IDENTIFIER: US 4857409 A

TITLE: Clear barrier composites containing polyisobutylene/polyolefin alloy components

---------- KWIC ---------

The data in Table II reveals that for elastomer/HDPE (fractional melt index) blends (those used commercially in medical overwrap applications) the haze is predominantly internal and is crystallization related (Examples E & F). However, in the elastomer bi-blends and tri-blends of Films A, B, C and D, the haze is primarily a function of film surface roughness. The discovery that haze is a surface phenomenon makes possible the use of rubber-rich polyolefin blends in this invention, while still achieving good clarity in a nonoriented film.

Film composites were prepared using the formulations shown in Table V. Their physical properties are shown in Table VI. In general, the clarity of each sheet was very good. The haze was particularly low (5.3%), as in Example 3, where the elastomer component of the core was Vistalon 1721, an EPDM having a 15 Mooney (1+8 @127.degree. C.) and 80 wt % ethylene content. While the PIB composition (Example 7) showed a relatively high haze, when a bag was prepared from this composition with the rubber roll contacted surface facing inward and the bag filled with water, the bag exhibited outstanding contact clarity and very high gloss. Hence, when care is taken to use the film composite as

described above, where only one surface of the composite contributes to the
high haze, even haze levels in excess of 25% can be tolerated. Such is not the
case where both surfaces of the composite are par in smoothness.

DERWENT-ACC-NO: 1985-089586
DERWENT-WEEK: 198515

TITLE: Vibration-resistant laminate - comprises metal layer and polymer layer
contg. polyvinyl acetal resin and polyolefin

PATENT-ASSIGNEE: KAWASAKI STEEL CORP[KAWI], MITSUBISHI CHEM IND LTD[MITU]

PRIORITY-DATA: 1983JP-0147183 (August 11, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 60038150 A	February 27, 1985	N/A	007	N/A
JP 87002983 B	January 22, 1987	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 60038150A	N/A	1983JP-0147183	August 11, 1983

INT-CL (IPC): B32B015/08; C08L023/06 ; C08L029/14 ; F16F015/02

ABSTRACTED-PUB-NO: JP 60038150A
BASIC-ABSTRACT: Laminate comprises (A) metal layer and (B) vibration resistant
polymer layer comprising (B1) 5-98 wt.% polyvinyl acetal resin and (B2) 95-2
wt. % polyolefin and opt. (B3) plasticiser in amt. up to 40 pts.wt. per 100
pts. (B1) and (B2).

(B1) is prepd. by polymerising vinyl acetate, saponifying the resin to provide
polyvinyl alcohol and reacting the polyvinyl alcohol with formaldehyde or
butyric aldehyde to give formal resin or butyral resin of average degree of

polymerisation 300-5,000. (B2) is pref. polyethylene of density 0.910-0.970
g/cm3, propylene homopolymer, random or block copolymer or ethylene/ (3-10C)
alpha-olefin copolymer of density 0.880-0.910 or such polyolefin modified by
alpha, beta-unsatd. carboxylic acid or its anhydride. (B3) is pref. phthalate
ester, phosphate ester, fatty acid ester, glycol ester, vegetable oil or
epoxidised vegetable oil for controlling the temp. range providing the max.
loss coefft.

ADVANTAGE - The laminate has high loss coefft. and workability.

CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS:
VIBRATION RESISTANCE LAMINATE COMPRISE METAL LAYER POLYMER LAYER CONTAIN
POLYVINYL ACETAL RESIN POLYOLEFIN

DERWENT-CLASS: A14 A17 A94 P73 Q63

CPI-CODES: A04-G01B; A07-A02C; A10-E02; A12-B04E; A12-H09; A12-S06C;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 0218 0231 0787 1389 1396 1992 2007 2175 2179 2198 2231 2232 2233
2234 2236 2585 2623 2645 2728 2751 0239 0246 0247 0248 0002 3151 0241 3153 0250
0257 0264 0271 0278 0292 0037 0038 0242 0251 0258 0265 0272 0279 0293 0405 1411
Multipunch Codes: 014 04- 040 041 046 047 048 049 066 067 075 154 165 228 231
232 233 239 244 245 315 336 359 45- 47& 477 551 560 562 575 580 583 589 623 629
688 723 014 04- 040 041 046 050 066 067 075 154 165 228 231 232 233 239 244 245
315 336 359 45- 47& 477 551 560 562 575 580 583 589 623 629 688 723 014 034 036
04- 040 041 046 047 050 066 067 075 154 165 228 231 232 233 239 244 245 27& 315
336 359 45- 47& 477 551 560 562 575 58& 580 583 589 623 629

688 723 014 034 036
04- 040 041 046 047 051 066 067 075 154 165 228 231 232 233
239 244 245 27& 315
336 359 45- 47& 477 551 560 562 575 58& 580 583 589 623 629
688 723 014 034 036
04- 040 041 046 047 052 066 067 075 154 165 228 231 232 233
239 244 245 27& 315
336 359 45- 47& 477 551 560 562 575 58& 580 583 589 623 629
688 723 014 034 036
04- 040 041 046 047 066 067 075 154 165 228 231 232 233 239
244 245 27& 315 336
359 45- 47& 477 551 560 562 575 58& 580 583 589 623 629 688
698 723 014 034 036
04- 040 041 046 047 053 066 067 075 154 165 228 231 232 233
239 244 245 27& 315
336 359 45- 47& 477 551 560 562 575 58& 580 583 589 623 629
688 723 014 034 036
04- 040 041 046 047 054 066 067 075 154 165 228 231 232 233
239 244 245 27& 315
336 359 45- 47& 477 551 560 562 575 58& 580 583 589 623 629
688 723 726 014 034
04- 040 041 046 047 050 051 052 053 054 066 067 074 075 104
106 154 155 157 165
228 231 232 233 239 244 245 28& 315 336 359 45- 47& 477 551
560 562 575 580 583
589 623 629 688 698 723 726 014 04- 040 041 046 047 048 049
066 067 075 154 165
228 231 232 233 239 244 245 315 336 359 45- 47& 477 551 560
562 575 580 583 589
623 629 688 723 014 04- 040 041 046 050 066 067 075 154 165
228 231 232 233 239
244 245 315 336 359 45- 47& 477 551 560 562 575 580 583 589
623 629 688 723 014
034 036 04- 040 041 046 047 050 066 067 075 154 165 228 231
232 233 239 244 245
27& 315 336 359 45- 47& 477 551 560 562 575 58& 580 583 589
623 629 688 723 014
034 036 04- 040 041 046 047 051 066 067 075 154 165 228 231
232 233 239 244 245
27& 315 336 359 45- 47& 477 551 560 562 575 58& 580 583 589
623 629 688 723 014
034 036 04- 040 041 046 047 052 066 067 075 154 165 228 231
232 233 239 244 245
27& 315 336 359 45- 47& 477 551 560 562 575 58& 580 583 589
623 629 688 723 014
034 036 04- 040 041 046 047 066 067 075 154 165 228 231 232
233 239 244 245 27&
315 336 359 45- 47& 477 551 560 562 575 58& 580 583 589 623

629 688 698 723 014
034 036 04- 040 041 046 047 053 066 067 075 154 165 228 231
232 233 239 244 245
27& 315 336 359 45- 47& 477 551 560 562 575 58& 580 583 589
623 629 688 723 014
034 036 04- 040 041 046 047 054 066 067 075 154 165 228 231
232 233 239 244 245
27& 315 336 359 45- 47& 477 551 560 562 575 58& 580 583 589
623 629 688 723 726
014 034 04- 040 041 046 047 050 051 052 053 054 066 067 074
075 104 106 154 155
157 165 228 231 232 233 239 244 245 28& 315 336 359 45- 47&
477 551 560 562 575
580 583 589 623 629 688 698 723 726
SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1985-038861
Non-CPI Secondary Accession Numbers: N1985-066978

DERWENT-ACC-NO: 1998-216571
DERWENT-WEEK: 200227

TITLE: Production of an acetal product used in toiletries, fuels and paints -
by heating an aromatic aldehyde, a poly:hydric alcohol, and acid catalyst, a
hydrophobic organic medium and a processing agent

INVENTOR: SALLEY, J M; SCRIVENS, W A

PATENT-ASSIGNEE: MILLIKEN & CO[DEER], MILLIKEN RES CORP[DEER]

PRIORITY-DATA: 1997US-0792518 (January 31, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5731474 A	March 24, 1998	N/A	005	C07C 043/307
ES 2165659 T3	March 16, 2002	N/A	000	C07D 493/04
EP 856515 A1	August 5, 1998	E	000	C07D 493/04
JP 10291987 A	November 4, 1998	N/A	006	C07D 317/20
KR 98070921 A	October 26, 1998	N/A	000	C07B 041/04
EP 856515 B1	December 5, 2001	E	000	C07D 493/04
DE 69802719 E	January 17, 2002	N/A	000	C07D 493/04

DESIGNATED-STATES: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL P
T RO SE SI BE DE ES FR GB IT

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
US 5731474A	N/A	1997US-0792518	January 31, 1997

ES 2165659T3	N/A	1998EP-0300430
January 21, 1998		
ES 2165659T3	Based on	EP 856515
N/A		
EP 856515A1	N/A	1998EP-0300430
January 21, 1998		
JP 10291987A	N/A	1998JP-0018734
January 30, 1998		
KR 98070921A	N/A	1998KR-0002526
January 30, 1998		
EP 856515B1	N/A	1998EP-0300430
January 21, 1998		
DE 69802719E	N/A	1998DE-0602719
January 21, 1998		
DE 69802719E	N/A	1998EP-0300430
January 21, 1998		
DE 69802719E	Based on	EP 856515
N/A		

INT-CL (IPC): C07B041/04; C07C043/307 ; C07D317/20 ; C07D493/04

ABSTRACTED-PUB-NO: EP 856515B

BASIC-ABSTRACT: A method of making an acetal product comprising heating a reaction mixture comprising an aromatic aldehyde, a polyhydric alcohol, an acid catalyst, a hydrophobic organic liquid medium and a processing agent selected from dihydric, trihydric and tetrahydric alcohols. This affects a condensation reaction between the aromatic aldehyde and the polyhydric alcohol to form a diacetal at a temperature which is less than the boiling temperature of the processing agent. The processing agent is present in the reaction mixture during the condensation reaction.

USE - The diacetals are used as nucleating agents, clarifying agents, gelling agents, processing aids and strength modifiers in polyolefin resins, polyester resins, deodorant and antiperspirant compositions, hydrocarbon fuels, waste liquids, especially those containing organic impurities and paints.

ADVANTAGE - The process gives high yields in purity with low product discolouration and minimum use of solvents. It can be conducted at ambient pressure and does not require specialised equipment. The process minimises the lower alcohol requirements therefore reducing the need to purify and recycle it. It can be conducted at relatively high temperatures and the overall result is increased reaction time and a decrease in cycle time it is also conducted in a hydrophobic organic medium.

ABSTRACTED-PUB-NO: US 5731474A
EQUIVALENT-ABSTRACTS: A method of making an acetal product comprising heating a reaction mixture comprising an aromatic aldehyde, a polyhydric alcohol, an acid catalyst, a hydrophobic organic liquid medium and a processing agent selected from dihydric, trihydric and tetrahydric alcohols. This affects a condensation reaction between the aromatic aldehyde and the polyhydric alcohol to form a diacetal at a temperature which is less than the boiling temperature of the processing agent. The processing agent is present in the reaction mixture during the condensation reaction.

USE - The diacetals are used as nucleating agents, clarifying agents, gelling agents, processing aids and strength modifiers in polyolefin resins, polyester resins, deodorant and antiperspirant compositions, hydrocarbon fuels, waste liquids, especially those containing organic impurities and paints.

ADVANTAGE - The process gives high yields in purity with low product discolouration and minimum use of solvents. It can be conducted at ambient pressure and does not require specialised equipment. The process minimises the lower alcohol requirements therefore reducing the need to purify and recycle

it. It can be conducted at relatively high temperatures and the overall result
is increased reaction time and a decrease in cycle time it is also conducted in
a hydrophobic organic medium.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:
PRODUCE ACETAL PRODUCT TOILETRY FUEL PAINT HEAT AROMATIC ALDEHYDE POLY HYDRIC
ALCOHOL ACID CATALYST HYDROPHOBIC ORGANIC MEDIUM PROCESS AGENT

DERWENT-CLASS: A60 D21 D22 E14 G02 H06

CPI-CODES: A04-G01B; A05-E01A2; A08-M; A08-M10; D08-B09B; E06-A02E; E07-A04;
G02-A03; H06-D; N05-E02;

CHEMICAL-CODES:
Chemical Indexing M3 *01*
Fragmentation Code
M414 M730 M903 Q421

Chemical Indexing M3 *02*
Fragmentation Code
C216 D012 D013 D019 D160 F012 F014 F015 F016 F140
F163 G010 G011 G012 G013 G014 G015 G016 G017 G018
G019 G020 G021 G029 G100 G111 G112 G113 G212 G221
G223 G299 H4 H401 H402 H403 H404 H405 H421 H441
H442 H443 H444 H481 H482 H483 H484 H541 H542 H543
H581 H582 H583 H584 H589 H594 H599 H600 H608 H609
H641 H642 H643 H8 J011 J012 J013 J014 J131 J132
J133 J231 J232 K442 K499 L810 L814 L818 L821 L833
M1 M111 M113 M115 M119 M210 M211 M212 M213 M214
M215 M216 M220 M221 M222 M223 M224 M225 M226 M231
M232 M233 M240 M271 M272 M280 M281 M282 M283 M311
M312 M313 M314 M315 M321 M322 M323 M332 M342 M343
M344 M373 M383 M391 M392 M393 M412 M413 M510 M511
M520 M521 M531 M532 M533 M540 M720 M903 M904 N209
N243 N262 N303 N304 N309 N342 N442 N513 Q130 Q251
Q332 Q414 Q604
Ring Index
00262 01643
Markush Compounds
199819-S3301-P

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0032S; 0545S ; 0715S ; 0760S

ENHANCED-POLYMER-INDEXING:
Polymer Index [1.1]
    018 ; G0033*R G0022 D01 D02 D51 D53 ; H0000 ; H0011*R ; P1150
Polymer Index [1.2]
    018 ; P0839*R F41 D01 D63
Polymer Index [1.3]
    018 ; ND00 ; Q9999 Q7158*R Q7114
Polymer Index [1.4]
    018 ; D60 ; R00760 G2028 D01 D11 D10 D19 D18 D31 D50 D60 D76 D87
    F62 ; C999 C102 C000 ; C999 C260
Polymer Index [1.5]
    018 ; D01 D11 D10 D19 D18 D32 D76 D50 D95 F24 F29 F26 D69 D21 D20
    D77 D78 ; A999 A362 ; A999 A748 ; A999 A760 ; A999 A704 A691 ; A999
    A759 ; N9999 N6177*R ; B9999 B4535 ; B9999 B4273 B4240 ; K9461 ;
    N9999 N6780*R N6655 ; L9999 L2006

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1998-068676

DERWENT-ACC-NO: 1982-33150E
DERWENT-WEEK: 198217

TITLE: Polyethylene or ethylene!-vinyl! acetate copolymer agricultural film -
contains acetal! resin to improve thermal insulation

INVENTOR: KODERA, Y; KUSU, T ; WATANABE, K

PATENT-ASSIGNEE: SEKISUI KAGAKU KOGYO KK[SEKI]

PRIORITY-DATA: 1978CA-0304543 (May 31, 1978)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 1121083 A	March 30, 1982	N/A	015	N/A

INT-CL (IPC): A01G013/02; C08J009/00 ; C08L023/04 ; C08L031/04

ABSTRACTED-PUB-NO: CA 1121083A
BASIC-ABSTRACT: A resin film or sheet consists of a thermoplastic olefin
polymer (I) and 1-20 wt.% based on (I) of an acetal resin. (I) is polyethylene
or an ethylene vinyl acetate copolymer. The acetal resin is polyoxymethylene
which can contain 0-3 wt.% comonomer and has a degree of polymerisation of
500-3500.

(I) is low density polyethylene or a copolymer of ethylene and 5-20 % vinyl
acetate. The sheet or film is foamed.

Thermally insulating an agricultural locus to make it suitable for crop
growing, e.g. as a greenhouse or tunnel house or in mulching. The acetal resin
reduces the dissipation of radiant heat from the film or sheet at night.

TITLE-TERMS:
POLYETHYLENE POLYETHYLENE POLYVINYL ACETATE COPOLYMER AGRICULTURE FILM CONTAIN
POLYACETAL RESIN IMPROVE THERMAL INSULATE

ADDL-INDEXING-TERMS:
EVA

DERWENT-CLASS: A17 A94 P13

CPI-CODES: A04-G02E2; A04-G07; A05-H02; A07-A04E; A12-S06D; A12-W04;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 3003 0218 0231 0239 0241 0246 0247 3155 0248 0789 1275 1511 1512
2271 3222 2445 2446 3237 2513 2522 2536 2537 2585 2595 2628 2629 2645 2654 2689
2690 2844
Multipunch Codes: 013 034 04- 040 041 046 047 048 049 050 066 067 080 13- 138
180 27& 318 415 435 448 449 450 49- 491 50& 502 516 523 551 56& 560 566 567 575
580 583 589 596 611 615 617 681 688 720

DERWENT-ACC-NO: 1984-260732
DERWENT-WEEK: 198442

TITLE: High quality polyacetal prodn. - by homogeneously mixing trioxane and
opt. cyclic ether with Lewis acid and polymerising

PATENT-ASSIGNEE: ASAHI CHEM IND CO LTD[ASAH]

PRIORITY-DATA: 1983JP-0031796 (March 1, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 59159812 A	September 10, 1984	N/A	008	N/A
JP 92059329 B	September 22, 1992	N/A	008	C08G 002/06

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 59159812A	N/A	1983JP-0031796	March 1, 1983
JP 92059329B	N/A	1983JP-0031796	March 1, 1983
JP 92059329B	Based on	JP 59159812	N/A

INT-CL (IPC): C08G002/06; C08G002/10 ; C08G002/18

ABSTRACTED-PUB-NO: JP 59159812A
BASIC-ABSTRACT: Prepn. comprises (a) mixing (3) trioxane and Lewis acid or (4)
trioxane, cyclic ether and Lewis acid homogeneously at 64-140 deg.C for 10-300
secs. and (b) feeding the mixt. into a polymerisation device.

Lewis acid pref. includes, e.g., SnCl4, TiCl4, AlCl3, BCl3, triphenylmethyl
hexafluoroantimonate or triethyloxonium tetrafluoroborate. Pref. cyclic ether
includes, e.g., ethylene oxide, cyclohexane oxide or

ethylene glycolformal.

ADVANTAGE - Polyacetal of high quality is prepd. continuously. Trioxane and catalyst are mixed homogeneously and heat of polymerisation is removed efficiently.

In an example, 15 kg/hr. trioxane, 330 g/hr. of ethylene oxide, 1.2 l/hr. benzene and 3.3 g/hr. of BF3OBu2 are mixed violently at 1,800 rpm for 46 secs. with mixer maintained at 85 deg.C. The mixt. is fed to a biaxial reactor maintained at 70 deg.C. Polymer of reduced viscosity 3.50 is obtd.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:
HIGH QUALITY POLYACETAL PRODUCE HOMOGENEOUS MIX TRIOXANE OPTION CYCLIC ETHER LEWIS ACID POLYMERISE

DERWENT-CLASS: A25

CPI-CODES: A02-A04; A05-H02A;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0876U; 1677U ; 1701U ; 5353U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 0013 3003 0070 0073 0151 0160 0172 0230 1275 2040 2043 2063 2318 2559 1518 2075 2085 2093 2076 1279 1520 1590 2098 2099 2108 2116 2122 1702 1688
Multipunch Codes: 014 028 04& 06- 07& 08& 080 09& 13- 138 15& 17& 18- 180 20- 261 277 293 316 347 348 352 355 357 398 512 681 688 689 692
014 028 034 04& 06- 07& 08& 080 09& 13- 138 147 15& 17& 18- 180 198 20- 261 27& 277 293 316 336 348 352 355 357 398 512 679 681 689 692 720
014 028 034 04& 06- 07& 08& 080 09& 13- 138 147 15& 17& 174 18- 180 20- 205 261 27& 277 293 316 348 352 355 357 398 512 679 681 689 692
014 028 034 04& 06- 07& 08& 080 09& 13- 138

147 15& 157 17& 18-
180 20- 205 261 27& 277 293 316 348 352 355 357 398 512 679
681 689 692
SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1984-110463

3410242	C	January 14, 1988	N/A
000	N/A		
JP 59172512	A	September 29, 1984	N/A
000	N/A		
JP 60018511	A	January 30, 1985	N/A
000	N/A		
JP 60040111	A	March 2, 1985	N/A
000	N/A		
JP 87020203	B	May 6, 1987	N/A
000	N/A		
JP 91033170	B	May 16, 1991	N/A
000	N/A		
JP 91033171	B	May 16, 1991	N/A
000	N/A		
NL 190814	B	April 5, 1994	N/A
020	C08G 002/38		
NL 8400897	A	October 16, 1984	N/A
000	N/A		
US 4535127	A	August 13, 1985	N/A
000	N/A		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DE 3410242A	N/A	1984DE-3410242	March 21, 1984
JP 59172512A	N/A	1983JP-0047114	March 23, 1983
JP 60018511A	N/A	1983JP-0126792	July 12, 1983
JP 60040111A	N/A	1983JP-0147960	August 15, 1983
JP 91033170B	N/A	1983JP-0126792	July 12, 1983
JP 91033171B	N/A	1983JP-0147960	August 15, 1983
NL 190814B	N/A	1984NL-0000897	March 21, 1984
NL 8400897A	N/A	1984NL-0000897	March 21, 1984
US 4535127A	N/A	1984US-0588971	March 13, 1984

INT-CL (IPC): C08F008/28; C08F291/02 ; C08F293/00 ; C08G002/38 ;
C08G004/00 ; C08G081/02 ; C08L059/04 ; C08L061/02

RELATED-ACC-NO: 1984-279835

LTD

TITLE: Impact resistant polyacetal compsn. - includes acetal block copolymers
contg. acetal! and elastomer components

PATENT-ASSIGNEE: ASAHI CHEM IND CO LTD[ASAH]

PRIORITY-DATA: 1983JP-0064872 (April 13, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 59191751 A	October 30, 1984	N/A	012	N/A
JP 91030628 B	May 1, 1991	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 59191751A	N/A	1983JP-0064872	April 13, 1983
JP 91030628B	N/A	1983JP-0064872	April 13, 1983

INT-CL (IPC): C08L053/02; C08L059/00 ; C08L067/02 ; C08L075/04 ;
C08L077/00

ABSTRACTED-PUB-NO: JP 59191751A
BASIC-ABSTRACT: Polyacetal compsn. comprises (1) polyacetal and (2) acetal
block copolymers consisting of acetal polymer component and elastomer
component, having mol. wt. of 10,000-500,000 and having structure such that
elastomers having second order transition pt. of -120 deg. C to 40 deg. C
have been inserted into the main chain of linear polymers and (3) elastomers
having second order transition pt. of -120 deg. C to 40 deg. C and mol. wt.
of 10,000-500,000.

The compsn. has Izod impact value (with notch) of 8-90 kg.cm/cm. (1) contains
polyacetal homopolymer and copolymers. (2) contains 0.5-50

DERWENT-ACC-NO: 1985-089664
DERWENT-WEEK: 198515

TITLE: Adhesive resin compsns. for metals, wood, paper and polyolefin(s) -
comprises polyvinyl acetal resin, polyolefin resins and opt. plasticisers

PATENT-ASSIGNEE: MITSUBISHI CHEM IND LTD[MITU]

PRIORITY-DATA: 1983JP-0147181 (August 11, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 60038445 A	February 28, 1985	N/A	006	N/A
JP 94021209 B2	March 23, 1994	N/A	000	C08L 023/26

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 60038445A	N/A	1983JP-0147181	August 11, 1983
JP 94021209B2	N/A	1983JP-0147181	August 11, 1983
JP 94021209B2	Based on	JP 60038445	N/A

INT-CL (IPC): B32B027/32; C08J005/18 ; C08K005/10 ; C08K005/12 ;
C08L023/02 ; C08L023/26 ; C08L029/14 ; C08L051/06 ; C09J123/26 ;
C09J129/14 ; C09J151/06

ABSTRACTED-PUB-NO: JP 60038445A
BASIC-ABSTRACT: Compsns. comprise 5-98 wt.% (A) polyvinyl acetal resin and 2-95
wt.% (B) polyolefin resins and opt. (C) plasticisers in amt. below 50 wt.% (A).
(A) is prepd. by polymerising vinyl acetate monomer, saponifying polyvinyl
acetate resin, and reacting PVA obtd. with aldehyde.

Pref. (A) includes polyvinyl butyral resin. (A) contg. 0.1-5 mole % carboxyl
gps. is also pref. used. (A) has average polymerisation degree of 300-5,000,
pref. above 500 and an acetalation degree of 50-88 mole %. Pref. (B) includes
modified polyolefins prepd. by grafting ethylenically unsatd. carboxylic acids
or their acid anhydrides onto polyolefinsin the presence of organic peroxides.
Fillers, e.g., calcium carbonate or mica may be added to the compsns. in amt.
10-100 pts. wt. per 100 pts. wt. (A) and (B).

ADVANTAGE - Compsns. provide films having excellent gas barrier properties and
adhesive power at relatively low temp. They show high adhesive power over a
wide temp.range.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:
ADHESIVE RESIN COMPOSITION METAL WOOD PAPER POLYOLEFIN COMPRISE POLYVINYL
ACETAL RESIN POLYOLEFIN RESIN OPTION PLASTICISED

DERWENT-CLASS: A14 A17 A81 G03 P73

CPI-CODES: A04-G01B; A07-A02B; A10-E02; A12-A05B; G03-B02D2; G03-B02D3;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1278U; 5272U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 0003 0037 0038 0205 0218 0060 0231 0232 0234 0235 0404 0405 0787
1410 1411 1991 1992 1993 2007 2027 2028 2066 2073 2121 2175 2179 2198 2218 2220
2231 2585 3252 2670 3255 2682 2725 2726 2728 3268
Multipunch Codes: 014 034 037 04- 040 041 046 06- 066 067 074 075 104 106 15-
155 157 18- 229 231 232 233 234 244 245 264 266 267 27& 28& 308 310 315 347 351
359 41- 442 443 47& 477 504 54& 540 57& 575 58& 583 589 597 600 609 654 679 688

691 721
SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1985-038937

PAT-NO: EP000522180A1

DOCUMENT-IDENTIFIER: EP 522180 A1

TITLE: STRUCTURE OF POLYACETAL-BASE RESIN COMPOSIITON AND PRODUCTION THEREOF.

PUBN-DATE: January 13, 1993

INVENTOR-INFORMATION:

NAME	COUNTRY
TAJIMA, YOSHIHISA - UMEGAYA	JP
MIYAWAKI, KEIICHI - MIYAJIMA	JP
SANO, HIROYUKI - MIYAJIMA	JP

ASSIGNEE-INFORMATION:

NAME	COUNTRY
POLYPLASTICS CO	JP

APPL-NO: EP92903747

APPL-DATE: January 28, 1992

PRIORITY-DATA: JP02694891A (January 28, 1991)

INT-CL (IPC): C08J003/20

EUR-CL (EPC): C08L059/00

ABSTRACT:

CHG DATE=19990617 STATUS=O> A structure of a polyacetal-base resin composition comprising a polyacetal resin and a polyolefin resin added thereto to form a network structure wherein both resins are dispersed in each other and which has good acid resistance and fusibility with a polyolefin resin and excellent mechanical properties. In the step of melt mixing the polyacetal resin (A) as a matrix with the polyolefin resin (B), a filler (C) having a surface tension at least greater than that of the component (B) at the melt

mixing temperature
and a mean particle diameter of 0.05 to 50 mu m is added in such an amount as
to satisfy the relation represented by equations (1): $B/(A+B)=0.05-0.5$ (by
weight) and (2): $C/(B+C)=0.1-0.7$ (by weight). <IMAGE>

DERWENT-ACC-NO: 1983-40113K
DERWENT-WEEK: 198317

TITLE: Weather-resistant thermoplastic resin compsn. - contains acetal! resin
and resin contg. ethylene!-propylene! copolymer and copolymerisable monomers

PATENT-ASSIGNEE: SUMITOMO NAUGATUCK KK[SUMN]

PRIORITY-DATA: 1981JP-0143381 (September 10, 1981)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 58045252 A	March 16, 1983	N/A	003	N/A
JP 87061234 B	December 21, 1987	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 58045252A	N/A	1981JP-0143381	September 10, 1981

INT-CL (IPC): C08L051/06; C08L059/00 ; G21G004/00

ABSTRACTED-PUB-NO: JP 58045252A
BASIC-ABSTRACT: The compsns. (I) comprise 90-10 wt.% acetal resins (II) and
10-90 wt.% AES resins (III). (III) comprise ethylene-propylene gummy
copolymers (IV), and (V) vinyl cyanide cpds. (VI) and/or aromatic vinyl cpds.
(VII), and other polymerisable monomeric cpds. (VIII). (I) have excellent
weather resistance, impact resistance and coatability.

(II) are e.g. homopolymers of formaldehyde and copolymers of formaldehyde and
ethylene oxide. (V) are e.g. binary copolymers (IX) of ethylene and propylene
and ternary copolymers (X) of ethylene, propylene and

non-conjugated dienes.
In (IX) and (X), the ethylene:propylene mole ratio is pref. 5:1-1:3. (VI) are
pref. acrylonitrile. (VII) are pref. styrene, (VIII) are pref. methyl
methacrylate. (IV) are contained in 5-70 wt.% to 95-30 wt.% of (V), pref.
45-60 wt.% to 55-40 wt.% of (V).

TITLE-TERMS:
WEATHER RESISTANCE THERMOPLASTIC RESIN COMPOSITION CONTAIN POLYACETAL RESIN
RESIN CONTAIN POLYETHYLENE POLYPROPYLENE COPOLYMER COPOLYMERISE MONOMER

DERWENT-CLASS: A18

CPI-CODES: A04-C01; A04-D03A; A04-F06B; A04-G06A; A05-H02A; A07-A04E;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 0009 0013 0218 0226 3151 0241 0242 3153 3154 0250 0251 0300 0307
0370 0377 0503 3014 0538 1180 1201 1275 1279 1511 1513 1590 2605 2617 2718
Multipunch Codes: 013 02& 028 032 034 040 041 046 047 050 055 056 072 074 076
077 080 081 082 134 138 147 174 180 198 27& 28& 336 477 541 543 551 556 58& 681
688 720 723
SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1983-039173